SGML/XML to IADS

A fairly simple process.

Process Overview

- Decide where to break frames
- Add processing instructions for frames
- To view, add processing instructions for stylesheet
- Finishing Touches

Frame Breaks

- Look at the DTD and see where the logical breaks are
- MIL-STD-38784
  - Chapter, section, para0
- MIL-STD-2361
  - All work packages

Add frame PIs

- This can be done manually
- This can be done automatically

To View

- Add one processing instruction that tells IADS what stylesheet to use

Finishing Touches

- Need to step through and see if visually pleasing
- Frames maybe too long and need to be broken up

Proof of Concept

- Participated in a proof of concept
- Found a process that works from paper to IADS
- Started copies of paper DMWRs, probably written to MIL-STD-38784 or earlier standards
- Finished with IETMS that displayed in IADS tagged to MIL-STD-2361a

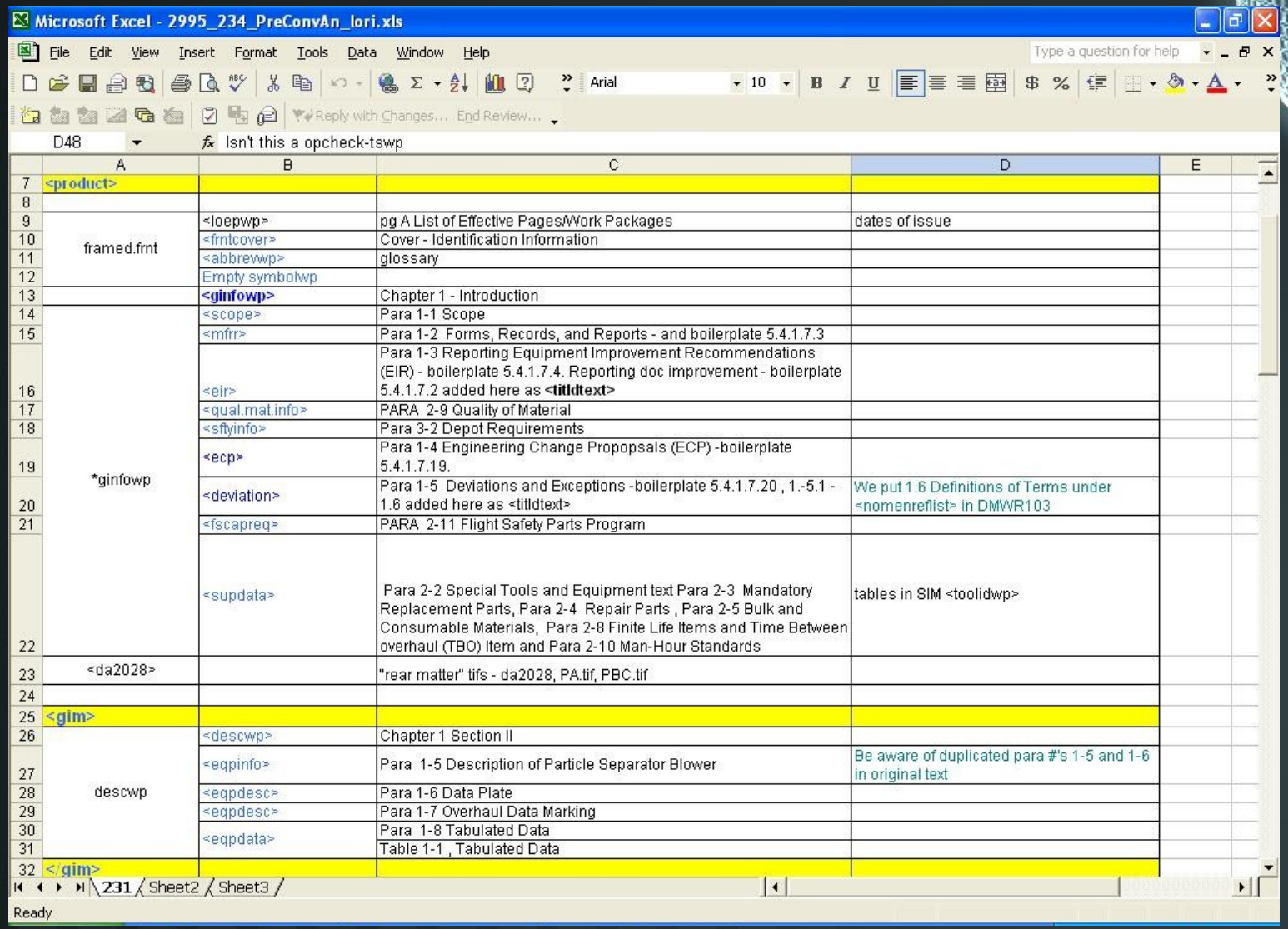
Trail and Error

- First Round
  - Gave paper documents and DTD to conversion company
  - Didn’t work quite right
- Second Round
  - Hardcopy assessment
  - Pre-conversion Analysis
  - Conversion QA
  - Filters
  - Final Touches
  - Final QA

Hardcopy Assessment

- Looked at hardcopy to see which vendor would be used
  - Text
  - Graphics
    - Raster or Vector

Preconversion Analysis


Microsoft Excel - 2995_234_PreConvAn_lori.xls

File Edit View Insert Format Tools Data Window Help

D48 Isn't this a opcheck-tswp

	A	B	C	D	E
7	<product>				
8					
9	framed.frnt	<loepwp>	pg A List of Effective Pages/Work Packages	dates of issue	
10		<frntcover>	Cover - Identification Information		
11		<abbrevwp>	glossary		
12		Empty symbolwp			
13		<ginfowp>	Chapter 1 - Introduction		
14	*ginfowp	<scope>	Para 1-1 Scope		
15		<mfrr>	Para 1-2 Forms, Records, and Reports - and boilerplate 5.4.1.7.3		
16		<eir>	Para 1-3 Reporting Equipment Improvement Recommendations (EIR) - boilerplate 5.4.1.7.4. Reporting doc improvement - boilerplate 5.4.1.7.2 added here as <titldtext>		
17		<qual.mat.info>	PARA 2-9 Quality of Material		
18		<sftyinfo>	Para 3-2 Depot Requirements		
19		<ecp>	Para 1-4 Engineering Change Propopsals (ECP) -boilerplate 5.4.1.7.19.		
20		<deviation>	Para 1-5 Deviations and Exceptions -boilerplate 5.4.1.7.20 , 1.-5.1 - 1.6 added here as <titldtext>	We put 1.6 Definitions of Terms under <nomenreflist> in DMWR103	
21		<fscapreq>	PARA 2-11 Flight Safety Parts Program		
22		<supdata>	Para 2-2 Special Tools and Equipment text Para 2-3 Mandatory Replacement Parts, Para 2-4 Repair Parts , Para 2-5 Bulk and Consumable Materials, Para 2-8 Finite Life Items and Time Between overhaul (TBO) Item and Para 2-10 Man-Hour Standards	tables in SIM <toolidwp>	
23	<da2028>		"rear matter" tifs - da2028, PA.tif, PBC.tif		
24					
25	<gim>				
26	descwp	<descwp>	Chapter 1 Section II		
27		<eqpinfo>	Para 1-5 Description of Particle Separator Blower	Be aware of duplicated para #'s 1-5 and 1-6 in original text	
28		<eqpdesc>	Para 1-6 Data Plate		
29		<eqpdesc>	Para 1-7 Overhaul Data Marking		
30		<eqpdata>	Para 1-8 Tabulated Data		
31			Table 1-1 , Tabulated Data		
32	</gim>				

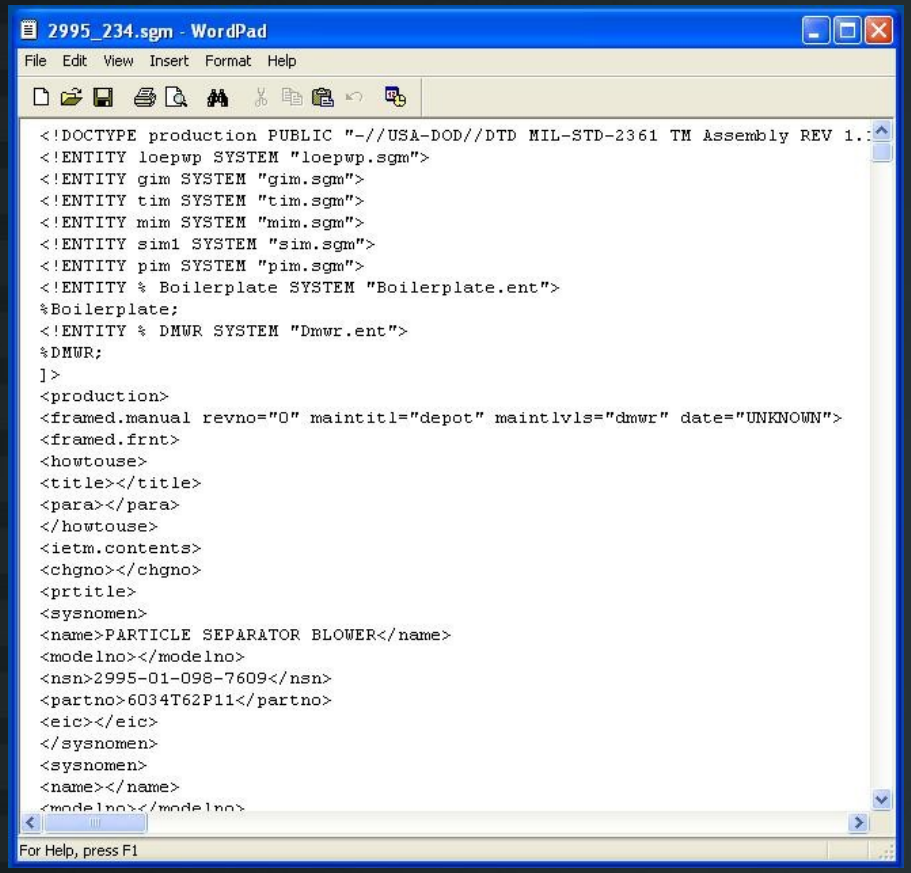
231 / Sheet2 / Sheet3 /

Ready

Conversion QA

- Check to ensure that it matches approved pre-analysis
- Identify scanning and typographical errors
- Check that all data is there
  - No relevant data left out
    - Check paragraph numbers

Filters


2995_234.sgm - WordPad
File Edit View Insert Format Help
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<!ENTITY gim SYSTEM "gim.sgm">
<!ENTITY tim SYSTEM "tim.sgm">
<!ENTITY mim SYSTEM "mim.sgm">
<!ENTITY sim1 SYSTEM "sim.sgm">
<!ENTITY pim SYSTEM "pim.sgm">
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%Boilerplate;
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<prtitle>
<sysnomen>
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<modelno></modelno>
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<partno>6034T62P11</partno>
<eic></eic>
</sysnomen>
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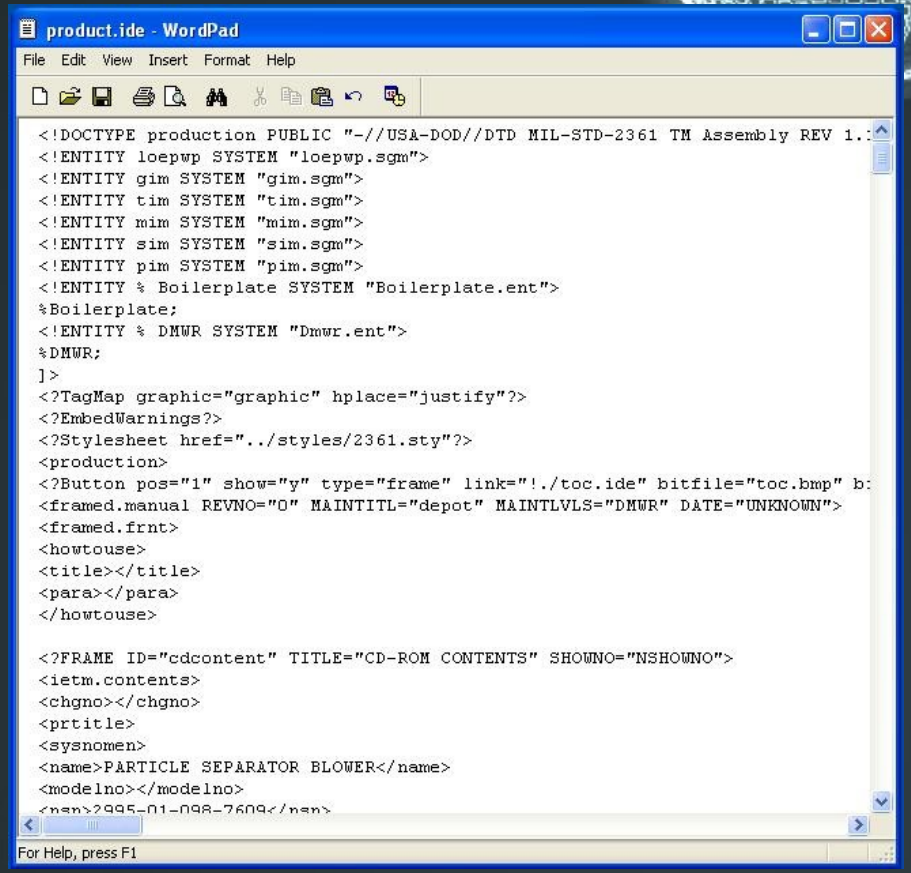
<name></name>
For Help, press F1


product.ide - WordPad
File Edit View Insert Format Help
<!DOCTYPE production PUBLIC "-//USA-DOD//DTD MIL-STD-2361 TM Assembly REV 1.
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<!ENTITY gim SYSTEM "gim.sgm">
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<!ENTITY mim SYSTEM "mim.sgm">
<!ENTITY sim SYSTEM "sim.sgm">
<!ENTITY pim SYSTEM "pim.sgm">
<!ENTITY % Boilerplate SYSTEM "Boilerplate.ent">
%Boilerplate;
<!ENTITY % DMWR SYSTEM "Dmwr.ent">
%DMWR;
]>
<?TagMap graphic="graphic" hplace="justify"?>
<?EmbedWarnings?>
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<production>
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<framed.frnt>
<howtouse>
<title></title>
<para></para>
</howtouse>
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<chgno></chgno>
<prtitle>
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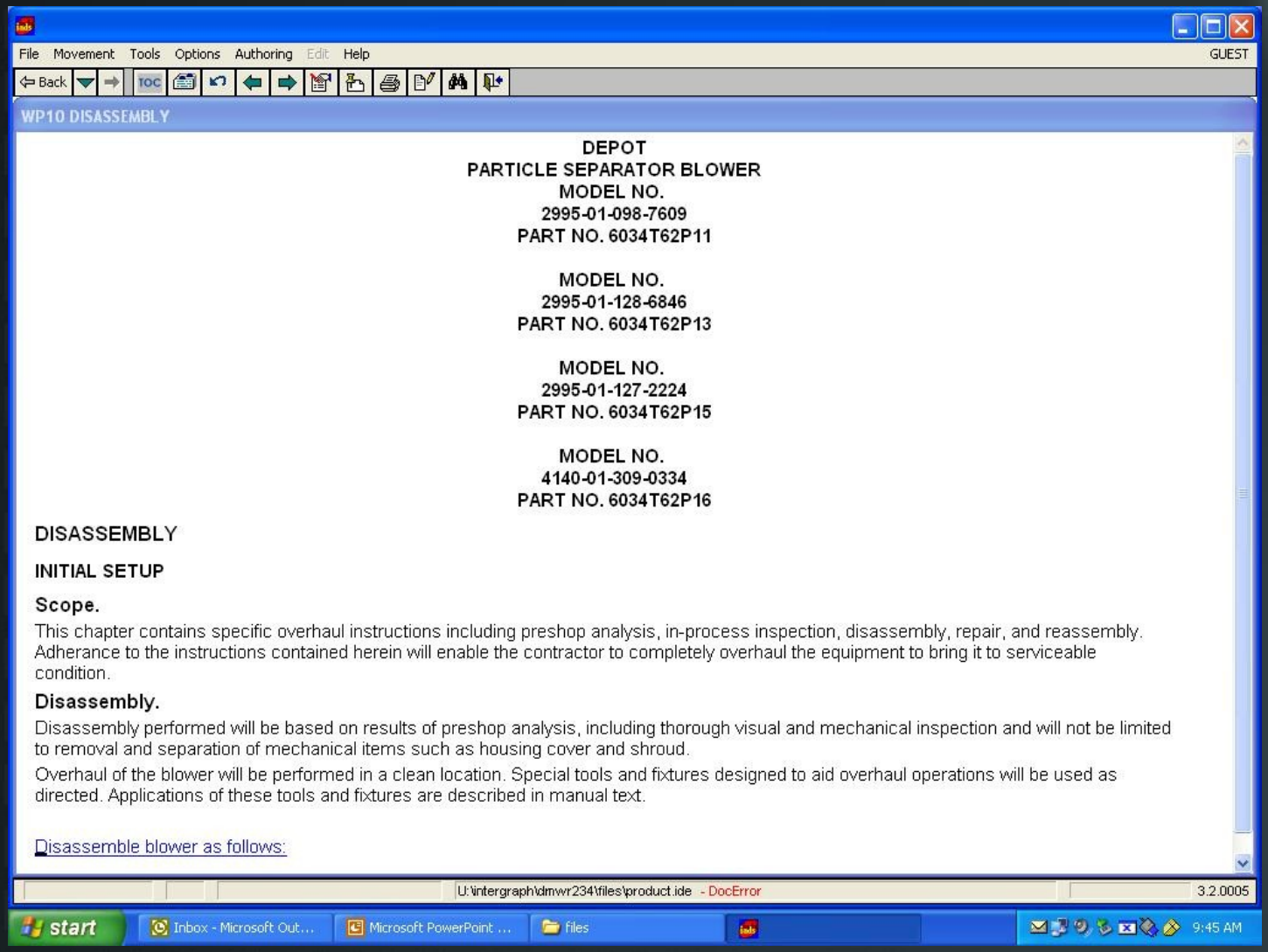
<modelno></modelno>
For Help, press F1

Works with no magic


File Movement Tools Options Authoring Edit Help
GUEST
Back
TOC
WP10 DISASSEMBLY
DEPOT
PARTICLE SEPARATOR BLOWER
MODEL NO.
2995-01-098-7609
PART NO. 6034T62P11
MODEL NO.
2995-01-128-6846
PART NO. 6034T62P13
MODEL NO.
2995-01-127-2224
PART NO. 6034T62P15
MODEL NO.
4140-01-309-0334
PART NO. 6034T62P16
DISASSEMBLY
INITIAL SETUP
Scope.
This chapter contains specific overhaul instructions including preshop analysis, in-process inspection, disassembly, repair, and reassembly. Adherance to the instructions contained herein will enable the contractor to completely overhaul the equipment to bring it to serviceable condition.
Disassembly.
Disassembly performed will be based on results of preshop analysis, including thorough visual and mechanical inspection and will not be limited to removal and separation of mechanical items such as housing cover and shroud.
Overhaul of the blower will be performed in a clean location. Special tools and fixtures designed to aid overhaul operations will be used as directed. Applications of these tools and fixtures are described in manual text.
Disassemble blower as follows:
U:\intergraph\dmwr234\files\product.ide - DocError
3.2.0005
start
Inbox - Microsoft Out...
Microsoft PowerPoint ...
files
9:45 AM

Final Touches

- MIL-STD boilerplate edited for DMWR specific data
- View for visual likes and dislikes
  - Breakup in smaller frames where needed
  - Check Tables for viewability and adjust
- Adjust stylesheet where needed
- Link naming convention applied
  - Check the links
- Add extra functionality

Final QA

- Links activate correctly
- Verify all WPs listed on pre-conversion analysis appear in integrated files
- TOC and Frame titles match
- Alerts working properly

Lessons Learned

- Pre-analysis very important
  - Saves time and money
  - Gives good understanding
    - Understand how data will be structured
      - Very important for IETM for linking data and controlling flow of data
    - OIPWP and OIPTAB
- Frequent QA checks on the process itself
- One person controlling changes to stylesheet

Questions and Answers